Amendments to the Claims

1. (*Currently Amended*) ~~A magnetoresistive~~ A magneto-resistive angle sensor ~~(100)~~ comprising a sensor device for detecting an angle (α) of an external magnetic field relative to a reference axis of the sensor device, characterized in that the sensor device comprises a flat AMR layer ~~(14, 15)~~ with one electrical contact ~~(K0)~~ for applying a current (I) and a plurality of electrical contacts ~~(Ki)~~ for measuring a flow of current through the AMR layer ~~(14, 15)~~.

2. (*Currently Amended*) ~~A magnetoresistive angle sensor as claimed in claim 1,~~ A magneto-resistive angle sensor as claimed in claim 1, characterized in that the sensor device is a circular AMR layer ~~(14)~~.

3. (*Currently Amended*) ~~A magnetoresistive angle sensor as claimed in claim 2,~~ A magneto-resistive angle sensor as claimed in claim 2, characterized in that the electrical contact ~~(K0)~~ for applying a current ~~(I)~~ is arranged in the center of the circular AMR layer ~~(14)~~.

4. (*Currently Amended*) ~~A magnetoresistive angle sensor as claimed in claim 2 or 3,~~ A magneto-resistive angle sensor as claimed in claim 2, characterized in that a plurality of electrical contacts ~~(Ki)~~ are arranged equidistantly at the edge of the circular AMR layer ~~(14)~~, in particular eight electrical contacts.

5. (*Currently Amended*) ~~magnetoresistive angle~~ A magneto-resistive angle as claimed in claim 1, characterized in that the sensor device is a semicircular AMR layer ~~(15)~~.

6. (*Currently Amended*) ~~A magnetoresistive angle~~ A magneto-resistive angle sensor as claimed in claim 5, characterized in that the electrical contact ~~(K0)~~ for applying a current ~~(I)~~ is arranged in the center of an associated full circle.

7. (*Currently Amended*) ~~A magnetoresistive angle sensor as claimed in claim 5 or 6,~~ A magneto-resistive angle sensor s claimed in claim 5, characterized in that a plurality of electrical contacts (K_i) are arranged equidistantly at the semicircular edge of the semicircular AMR layer (15), in particular five electrical contacts.

8. (*Currently Amended*) ~~A magnetoresistive angle sensor as claimed in any of claims 1 to 7,~~ A magneto-resistive angle sensor as claimed in claim 1, characterized in that the plurality of electrical contacts ~~(Ki)~~ are placed at the same potential, in particular at ground potential.

9. (*Currently Amended*) ~~A magnetoresistive angle sensor as claimed in any of claims 1 to 8, as claimed in claim 1, characterized in that the AMR layer (14, 15) is a Permalloy layer, and in particular the latter is applied to a silicon support substrate.~~ A magneto-resistive angle sensor as claimed in claim1, characterized in that the AMR layer is a Permalloy layer applied to a silicon support substrate.

10. (*Currently Amended*) ~~The use of a magnetoresistive angle sensor (100) as claimed in any of claims 1 to 9 in motor vehicle technology, in particular to monitor the position of a pedal and/or the position of a throttle~~. The use of a magneto-resistive angle sensor as claimed in claim1 in motor vehicle technology, wherein the magneto-resistive angle sensor monitors the position of at least one of the following: pedal, throttle.